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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/067,151	01/29/2002	Charle' R. Rupp	STRE-003/01US	4814
22830	7590	01/23/2004	EXAMINER	
CARR & FERRELL LLP 2200 GENG ROAD PALO ALTO, CA 94303			DO, THUAN V	
			ART UNIT	PAPER NUMBER
			2825	

DATE MAILED: 01/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/067,151

Applicant(s)

RUPP ET AL.

Examiner

Thuan Do

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 December 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 and 19-29 is/are pending in the application.
- 4a) Of the above claim(s) 18 is/are withdrawn from consideration.
- 5) ☒ Claim(s) 15, 17 and 19-29 is/are allowed.
- 6) ☒ Claim(s) 1-14 and 16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
- a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ 6) ☐ Other: _____

DETAILED ACTION

1. This non-final office action is in response to amendment entered on 12/04/2003. Claims 1-17,19-29 remain pending in the application. Claim 18 is canceled.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(e) the invention was described in-
(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

2. Claims 1-4 are rejected under 35 U.S.C. 102(e) as being unpatentable over Kornachuck, Pat. No. 6,044,481.

Regarding claim 1: Kornachuck teaches a method comprising:

identifying a programmable logic core (col. 3, lines 10-30) ;

identifying an application (col. 1, lines 25-40);

designing an application specific circuit for the application (col. 1, lines 25-40) ;

and

integrating a programmable logic core into the designed application specific circuit (col. 4, lines 12-28).

Regarding claim 2: Dave teaches a method comprising:

identifying a programmable logic core for the integrated circuit (col. 1, lines 19-22);

establishing a set of timing constraints associated with the programmable logic core (col. 8, lines 20-34 for timing constraints and col. 1, lines 19-22 for programmable logic core) ; and

controlling the design of application specific circuit that interfaces with the programmable logic core in the integrated circuit (col. 3, lines 42-60).

Regarding claims 3,4: These claims teach the method similar to the claim 1 and rejected in the same rationale except a sign-off design is rejected by column 2, lines 63-67.

Claim Rejections - 35 USC § 103

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 103 that form the basis for the rejections under this section made in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 5,6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kornachuck, Pat. No. 6,044,481 in view of Sawave et al., Pat. No. 5,426,744.

Regarding claim 5: Kornachuck teaches an integrated circuit including:
a programmable multi-scale array (**Sawave** in col. 30, lines 41-49 where the arithmetic information are incorporated in the array memory to perform multi-scale array) ;

an application circuit interface (col. 4, lines 12-28) for providing a signal interface between the programmable multi-scale array and the application specific circuitry (**Sawave** in col. 30, lines 41-49) ; and

a programmable logic core adapter (col. 4, lines 12-28) that configures the programmable multi-scale array (**Sawave** in col. 30, lines 41-49).

However, Kornachuck does not teach multi-scale array. **Sawave** teaches this feature in col. 30, lines 41-49.

It would have been obvious to one of ordinary skill in the integrated circuit design art at the time of the invention to have combined the teaching of **Sawave** into Kornachuck to have multi-scale array because multi-scale array as taught by **Sawave** would have provided a flexible memory design to interface to other circuits.

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Regarding claim 6: This claim teaches well known features to support claim 5 and rejected in the similar manner.

Regarding claims 7-14: These claims teach well known features to support claim 4 or 5 and rejected in the similar manner.

Regarding claim 16: This claim teaches a similar circuit of claim 1 and rejected in the same rationale.

Allowable Subject Matter

Claims 15,17,19-29 allowed. The reason is the prior art does not teach all features of the independent claims.

Response to Arguments

3. Applicant's arguments have been considered and persuasive . New ground rejection in introduced by the prior arts of Kornachuck and Sawave in above section.

CONTACT INFORMATION

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuan Do whose telephone number is 703-305-2362. The examiner can normally be reached on Monday-Friday 8:30-5:30 (except 2nd Fridays).

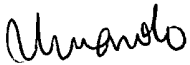
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew S. Smith can be reached on 703-308-1323. The fax phone numbers for the organization where this application or proceeding is assigned are 703305-3431 for regular communications and 703-305-3431 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0596.

A handwritten signature in black ink, appearing to read 'Thuan Do', with a stylized, cursive script.

Thuan Do
Patent examiner
1/13/04